

# PC simulations status

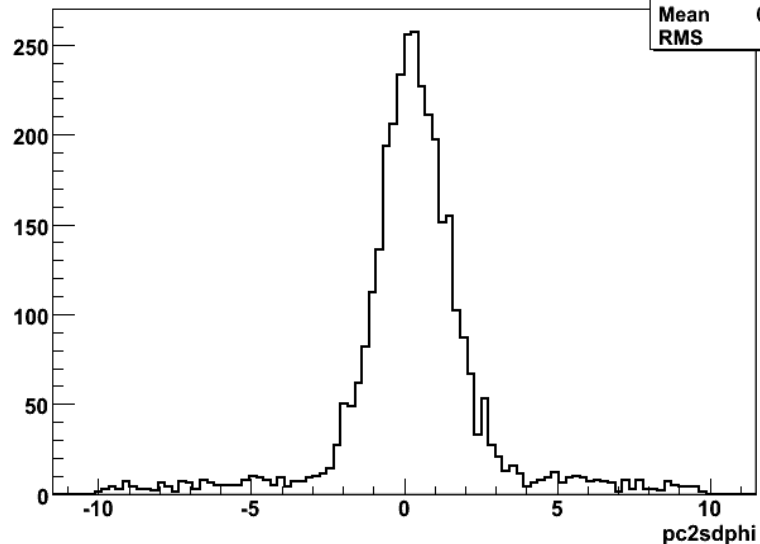
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- Error messages had appeared concerning CGL geometry in PC2/PC3
- Due to difference in sector definition in real and simulated data
- 4 sectors of PC2 and PC3 are set to 0 in simulations and set to 1 in real data
- Not clear why this difference exists - code committed ~4 years ago
- In May, the difference between real data reconstruction and simulations was removed (to avoid absence of PC2/PC3 projections noted in reconstructed data), but now this modification produces the error messages when running PISA
- Reverting back to previous definitions cures the problem
- Will try use same geometry definitions in real data and simulations at some point
- Thanks to Hugo for helping diagnose the problem

# Simulations output

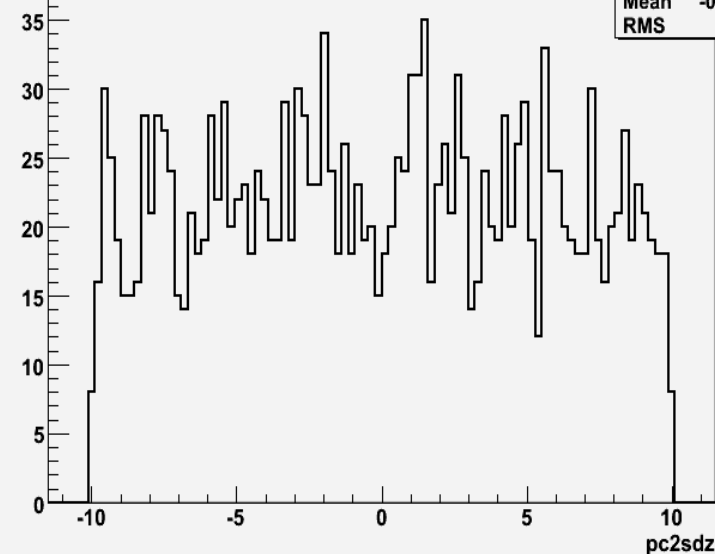
- Looked at one file in the output directory indicated by Hugo : `simCNT_single_electron_440001.root`
- Example plots for PC2 residuals. Issues with `pc2sdz`

`pc2sdphi {pc2sdphi>-10&&pc2sdphi<10}`



htemp	
Entries	3391
Mean	0.3162
RMS	2.286

`pc2sdz {pc2sdz>-10&&pc2sdz<10}`



htemp	
Entries	1922
Mean	-0.02812
RMS	5.638

## Reference run number 231429

- Checked OnCal status for the PC for Run 231429 : completed successfully

<a href="#">231429</a>	1	1	2007-04-29 20:46:45-04	OnCalv39	EVENTDATA_P00-0000231429-0000.PRDF EVENTDATA_P00-0000231429-0001.PRDF EVENTDATA_P00-0000231429-0002.PRDF EVENTDATA_P00-0000231429-0003.PRDF EVENTDATA_P00-0000231429-0005.PRDF EVENTDATA_P00-0000231429-0006.PRDF EVENTDATA_P00-0000231429-0007.PRDF EVENTDATA_P00-0000231429-0008.PRDF
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- No obvious issues from the Run7 logbook either

2888	Sat Apr 28 04:15:16 2007	Sergey Butsyk	Run 231429 finished	SL
Successfully finished run 231429. No errors				

- Run 231429 should be a good reference for the PC